

8-22-62

First Day:

A.M.  
8 to 10

Indoctrination - Outline

1. System Familiarization

- 1.1 Ship System
- 1.2 Suit System

2. Test Equipment Familiarization

2.1 Chamber

2.2 Instrumentation

- 2.2.1 Altitude
- 2.2.2 Oxygen Consumption
- 2.2.3 Vent Supply
- 2.2.4 Temperature Recording
- 2.2.5 Medical Instrumentation
  - 2.2.5.1 Rectal Probe
  - 2.2.5.2 EKG Patches
  - 2.2.5.3 Body Temperature Pickups

2.3 Test Procedure

- 2.3.1 Normal
- 2.3.2 Emergency

A.M.  
8 to 10

Suit Checkout (Bench Test)

- Suit #1
- Suit #2

P.M.  
11 to  
1:30

Subject #1

Two-Hour Run with Full Pressure Suit  
Suit Checkout

- 1. One-half hour at 27,000 feet
- 2. One-half hour at 35,000 feet
- 3. One-half hour at 27,000 feet

Check back pressure vs. ventilation on suit at ground level, 27,000 feet and 35,000 feet.

Subject will use "Press-to-test" at both altitudes for familiarization and comfort.

Subject #2

Observe - - Lunch

P.M.  
2 to  
4:30

Subject #2

Two - Hour Run as Above

Subject #2

Lunch - Brief for eight-hour run

USAF review(s) completed.

Second Day:

A.M./P.M.  
8 - 5:30

Subject #1

Eight and One-half Hour Run (Full Oxygen System)  
(Suit-up at 7:30 A.M.)  
Full time at 27,000 feet with heat per Graph #2

Subject #2  
Indoctrination:

G. S. E.  
Van Maint  
Van Transport  
Ventilator, Hand

Flight Mask -  
Recovery System  
Parachute  
Survival Kit

Helmet and Oxygen Mask Fit-up - Brief for eight  
and one-half hour run

Third Day:

A.M./P.M.  
8 - 5:30

Subject #2

(Same as Subject #1 on second day)

Subject #1

(Same as Subject #2 on second day)

Brief for High Altitude with High Temperature Run

Fourth Day:

A.M./P.M.

7 - 12:30      Subject #1

High Altitude/High Temperature:

Full ship system

Bottles charged to \_\_\_\_\_ PSI.

1. One-half hour at 27,000 feet. (Heat/Graph Number 2)
2. One-quarter hour at maximum altitude (Heat as on Graph Number 2)      Vent off.
3. One-half hour at 27,000 feet (Heat/Graph Number 2)
4. Rapid ascent to 55,000 feet. Hold for one quarter hour. (Maximum heat all over box wall - 500°F) Vent off.
5. Descent at 10,000 feet per minute to 27,000 feet. Hold for one-quarter hour. (All heat off) Vent on. Cooler on.
6. At 27,000 feet send in Emergency Oxygen System. (All heat OFF)
7. Rapid ascent to 60,000 feet. (All Heat OFF) Ship Oxygen Supply OFF. (Emergency Oxygen ON)
8. When Emergency Oxygen gages show 300 PSI (highest system) start descent to ground level. (All heat OFF) (Ship Oxygen Supply OFF) Emergency Oxygen ON

Subject #2

Brief for High Altitude/High Temperature Run

P.M.

1:30 -

7:00

Subject #2

High Altitude/High Temperature Run as Subject #1

Subject #1

Review of High Altitude/High Temperature Run  
Brief on eight and one-half hour run

Fifth Day:

A.M./P.M.

8 - 5:30

Subject #1

Eight and One-half Hour Run  
Suit-up at 7:30 A.M.

1. Four and one-quarter hours at 27,000 feet  
(Heat per Graph Number 2) Full Ship Oxygen System, except Chamber air temperature will be held to 100°F.

2. Four and one-quarter hours at 27,000 feet  
(Heat per Graph Number 2) Chamber temperature will be held to 100°F. One-half Ship Oxygen System.

Subject #2

Summary of Indoctrination

Brief for eight and one-half hour run

Sixth Day:

A.M./P.M.

8 - 5:30

Subject #2

Eight and One-half hour run  
Suit-up at 7:30 A.M.

Same as Subject #1 (Fifth Day)

Subject #1

Summary of Indoctrination